

**MINIATURE BROADBAND RING-LIKE MICROSTRIP PATCH ANTENNA****ABSTRACT**

- 5 A miniature broadband stacked microstrip patch antenna formed by two patches, an active and a parasitic patches, where at least one of them is defined by a Ring-Like Space-Filling Surface (RSFS) being this RSFS newly defined in the present invention. By means of this novel technique, the size of  
10 the antenna can be reduced with respect to prior art, or alternatively, given a fixed size the antenna can operate at a lower frequency with respect to a conventional microstrip patch antenna of the same size and with an enhanced bandwidth. Also, the antennas feature a high-gain when operated at a high order mode.